

Amendments to the Claims:

This listing of claims replaces all prior versions, and listings, of claims in this application.

1-12 (Canceled).

13. (Currently Amended) A method for transmitting information over a time duplexed communications link subject to interference from a broadband interference source, comprising:
connecting a base unit communicating over the duplexed communications link to an AC power source that powers the broadband interference source;
detecting a consistent timing of data packets received with errors over the communications link at regular intervals, wherein a segment B interferer is determined to be active, wherein detecting consistent timing comprises:
observing a time at which the data packets are received in error,
receiving phase information of the AC power source,
comparing the phase information of the AC power source to the time at which the data packets are received in error, and
determining that the data packets are received in error repeatedly at a consistent timing position with respect to the phase of the AC power source;
switching operation of the duplex communications link to an enhanced mode, wherein active physical links between the base unit and a portable handset are assigned redundant time slots in addition to primary timeslots used for communication between the base unit and handset;
and

~~The method of claim 12, further comprising~~ lowering a threshold for determining the segment B interferer to be active, wherein the enhanced mode is initiated after detection of a lower number of periodic errors;

wherein the phase information of the AC power source is provided by an output signal of a zero crossing detector.

14. (Currently Amended) The method of claim ~~11~~13, wherein the enhanced mode operation comprises:

transmitting the information within a first assigned time slot of the time duplexed communications link;

assigning a second time slot of the time duplexed communications link upon which a redundant copy of the information is to be transmitted, wherein a spacing between the first and the second time slot is greater than a duration of a segment B radiation burst and different than predetermined intervals between successive segment B radiation bursts; and

transmitting the redundant copy of the information within the second time slot of the time duplexed communications link.

15. (Currently Amended) A method for transmitting information over a time duplexed communications link subject to interference from a broadband interference source, comprising:

connecting a base unit communicating over the duplexed communications link to an AC power source that powers the broadband interference source;

detecting a consistent timing of data packets received with errors over the communications link at regular intervals, wherein a segment B interferer is determined to be active; and

switching operation of the duplex communications link to an enhanced mode, wherein active physical links between the base unit and a portable handset are assigned redundant time slots in addition to primary timeslots used for communication between the base unit and handset,
and ~~The method of claim 11~~, wherein the enhanced mode operation comprises:

transmitting a primary copy of a downlink data packet from the base unit to a handset within a first downlink time slot of the time duplexed communications link;

assigning a second downlink time slot of the time duplexed communications link upon which a redundant copy of the downlink data packet is to be transmitted;

transmitting the redundant copy of the downlink data packet within a second downlink time slot of the time duplexed communications link;

receiving an uplink data packet at the base unit that is transmitted from a handset over a first uplink time slot, wherein an assignment of the uplink time slot is sent by the base unit in a message to the handset before transmission of the uplink data packet.

16. (Previously Presented) The method of claim 15, wherein the message is contained in downlink packet header.

17. (Previously Presented) The method of claim 15, wherein the handset does not transmit until receiving the assignment of the uplink time slot.

18. (Previously Presented) The method of claim 14, wherein intervals between successive segment B radiation bursts alternate between about 7 msec and about 9 msec.

19-30. (Canceled)

31. (Currently Amended) A system for transmitting information over a time duplexed communications link that is subject to periodic radiation bursts, comprising:

a transceiver in a base unit configured to operate the time duplexed communications link in a standard or enhanced mode;

an AC to AC converter coupled to an AC power supply that powers the base unit and a source of the periodic radiation bursts;

a microcontroller (MCU) unit that controls operation of the transceiver, a zero crossing detector that generates a signal to the MCU for determining a frequency and polarity of the AC power source, wherein a timing of transmission errors received at the base unit with respect to a phase of the AC power source is determined;

a CODEC device configured to convert digital data contained in the transmitted information into audible information;

a buffer device serially incorporated into a data path of the CODEC device, the buffer configured to buffer the information for playback at a constant rate, wherein the enhanced mode comprises:

transmitting a first copy of the information within a first time slot of the time duplexed communications link;

assigning a second time slot of the time duplexed communications link upon which a redundant copy of the information is to be transmitted, wherein a spacing between the first and the second time slot is greater than a duration of the periodic radiation burst and different than predetermined intervals between successive segment periodic radiation bursts; and

transmitting the redundant copy of the information within the second time slot of the time duplexed communications link.

32. (Previously Presented) The system of claim 31, wherein the time duplexed communications link comprises a WDCT frame structure.

33. (Previously Presented) The system of claim 31, wherein the periodic radiation bursts comprise segment B radiation bursts.

34. (Previously Presented) The system of claim 33, wherein the enhanced mode of operation is initiated when a consistent timing position of transmission errors received at the base unit with respect to the phase of the AC power source is observed.

35-36. (Canceled).

37. (Currently Amended) The system of claim 31 ~~36~~, wherein the information buffered into the CODEC is contained in and selected from one of the first and redundant copies of the information, the selection based on the chosen copy being received without error.

38. (New) The method of claim 15, wherein the time duplexed communications link comprises a WDCT frame structure.

39. (New) The method of claim 15, wherein the enhanced mode of operation is initiated when a consistent timing position of transmission errors received at the base unit with respect to a phase of the AC power source is observed.